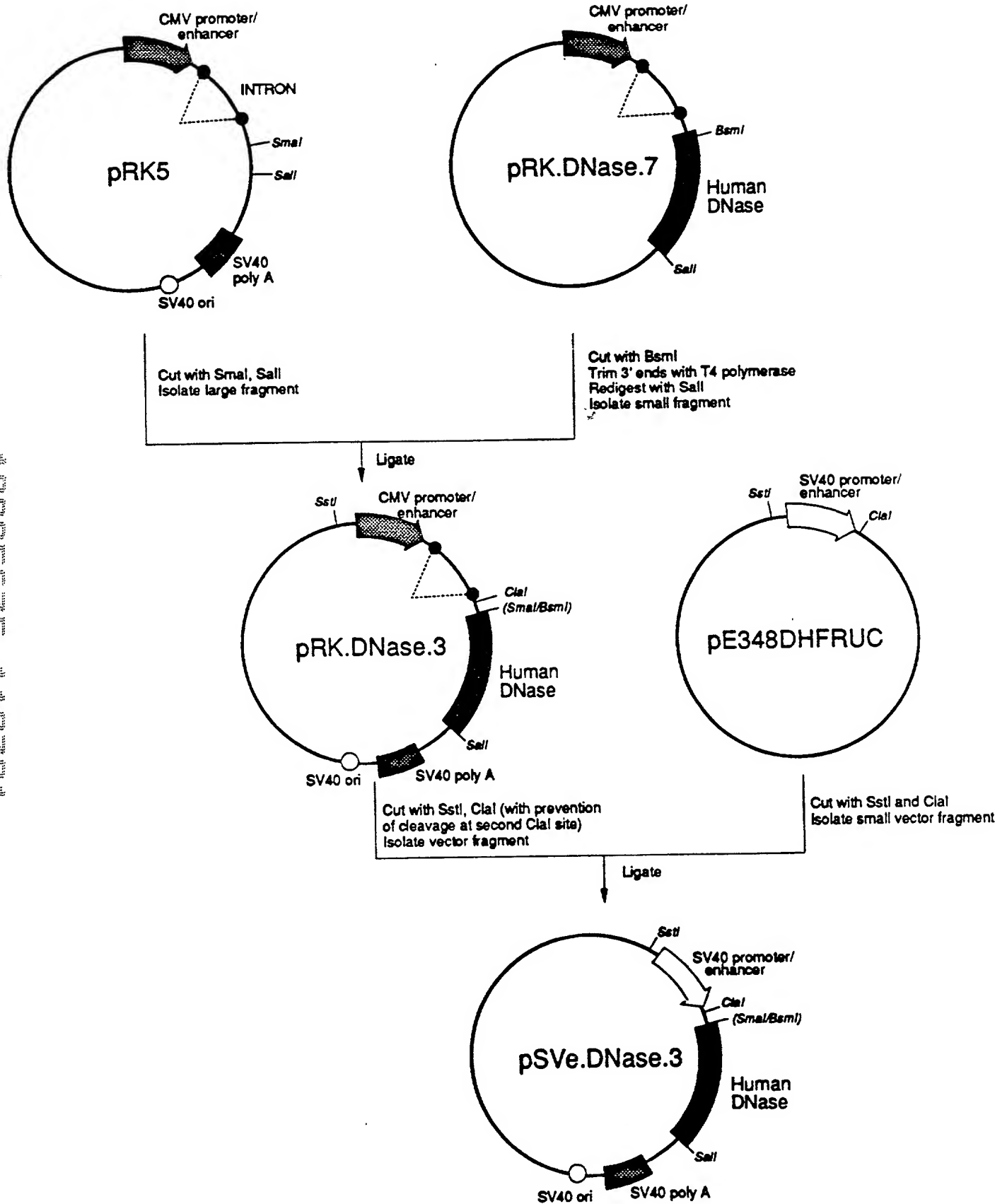


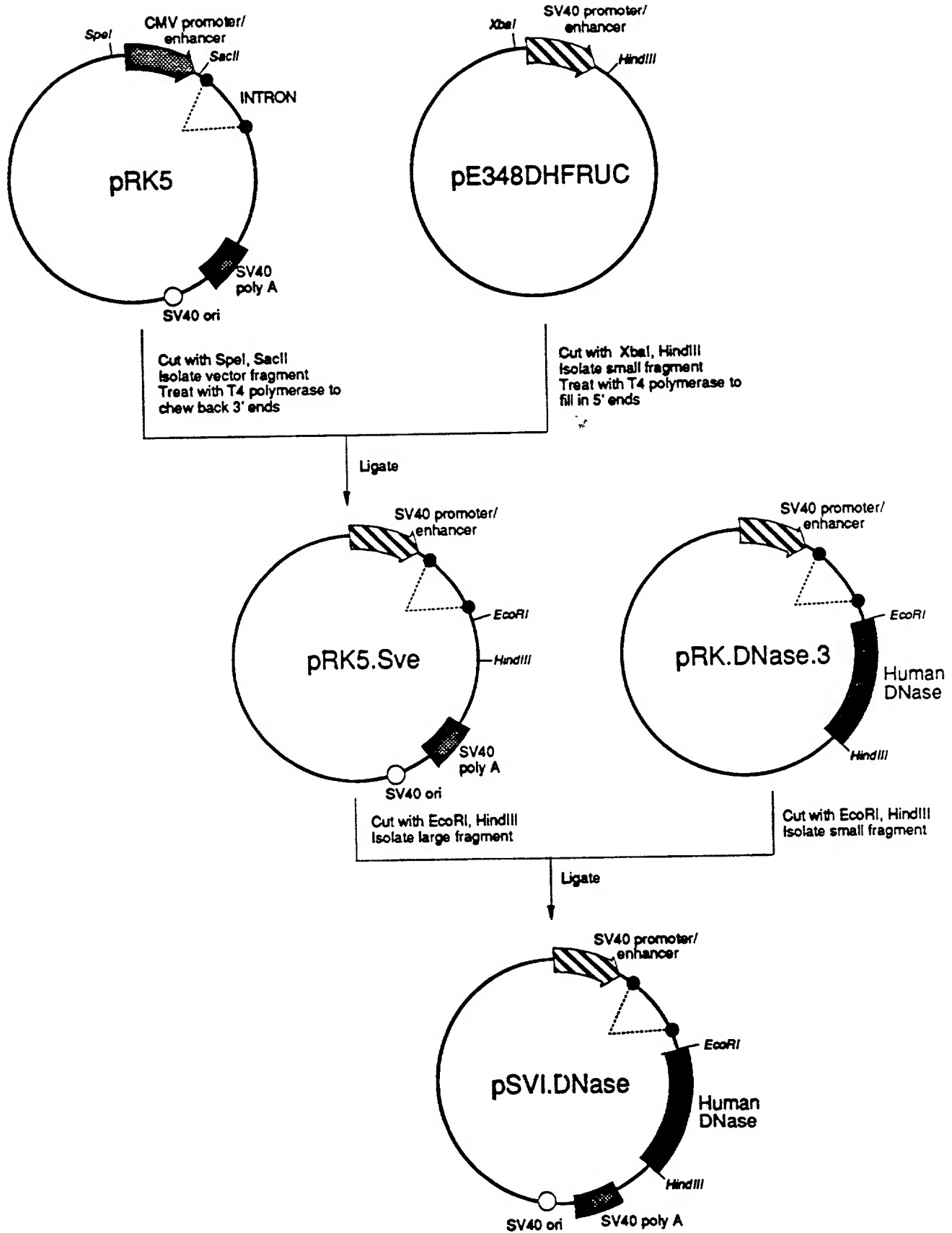
1	TCTGACAG	GCAGTCTT	GAAGTCTT	TTTCTTAA	GCAGCAAG	GAGAAATG	TCATCAAG
	AGGACGTG	CGTACGAA	CTTACGAA	AAAGTCTG	AAAGTCTG	CTCTTTAC	AGTAGTTCC
1	SerCysThr	lysAlaLeu	ulysCysPhe	PheArgAspL	eusSerAM	*ThrThrPhe	erSerLysA
101	ATATTCAG	TTCTGACG	CATTCTCT	ATCTGAGG	ACATCACC	CATCTCAG	TGAGCTCTG
35	TATAAGTCT	AGAACTGT	CTAAGACG	TAGAGACT	TGTAGTGT	GTAGAGTCT	CTCCCGGA
	IleProAs	pSerOP*Gln	HisSerArgH	isLeuOP*G	ylHisHis	HisLeuArgH	etArgGlyMe
201	GGCCCTAC	CAGGGGCG	TGTCCTGA	CACTCCAG	AGCATTTG	GGAGACAG	ATGTCCATG
	CCGGGATG	GTCCCGCG	ACAGGACT	CTAGCGTG	AACTGTAG	TCTGTAAAC	CCTCTGTT
68	AlaLeuLeu	GlnGlyAlaV	alSerLeuL	ileAlaAla	PheAsnileG	InThrPheG	yluThrLys
301	GTGCAGAT	TGAGCCGTA	TGACATCG	CTGTCTAG	AGCTCAGG	CAGCCACTG	ACTCCGTG
	CACGTCTAG	ACTCGCGAT	ACTGTAGCG	GACCAAGTC	TCCAGTCT	GTCCGTGAC	ThrAlaValG
101	ValGlnile	eusSerArgT	aspIleAla	LeuValGlnG	luValArgAs	pSerHisLeu	lyLysLeule
401	CACCAGAC	CTATCACT	GTGGTACG	AGCCACTGG	ACGTCAGG	TATAGGAC	GCTACTGT
	GTGGTCTG	GATAGTGAT	CACCACTAC	TCCGTGACC	TGCTTGTG	ATATTCTCG	CGATGGAC
135	ProaspTh	tyrHisLeu	valValSerG	luProLeuG	ylArgAsnSer	tyrLysGluA	rgTyrLeuPh
501	GGACAGTAC	TACTAGATG	ATGGCTGGA	GGCTGCGG	AACGACCT	TCAACCGAG	GCAGCCAT
	CCTGTCTAG	ATGATGCT	TACCGACCT	CGGACCGCC	TTGCTGTGA	AGTGGCTCT	CGGTCCGTA
168	AspSerTyr	tyrTyrAspA	spGlyCysG	uProCysGly	AsnAspThrP	heAsnArgG	uProAlaile
601	AGGAGTTG	CCATGTTC	CCTGCTAC	GGCCCGGG	ACGCACTAG	CGAGATCG	CGTCTCTAT
	TCCCTCAAC	GGTACACAG	GGAGTACCG	CGGGCCCC	TGGTCTATG	GCCTAGCTG	CGAGATAC
201	ArgGluPheA	laileValPr	oleuHisAla	AlaProGlyA	spAlaValAl	alGluileasp	AlaLeuTyrA
701	CCTTGGAG	CGTATGTG	ATGGGGACT	TCAATGGGG	CTGCAGCT	GTGAGACCT	CCCAGTCT
	CGAACCTCT	GCAGTACAC	TACCGCTGA	AGTTACGCC	GACGTGATA	CACCTCTGG	GGGTACCC
235	LeuGluAs	pValMetLeu	MetGlyAspP	heAsnAlaG	ylCysSerTyr	ValArgProS	erGlnTrpSe
801	CCAGTGGCT	ATCCCGACA	GGCTGACAC	CACAGCTACA	CCCACGCA	GTGCTATGA	CAGGATCTG
	GGTACCTG	TAGGGCTGT	CGGACTGTG	GTGTGATGT	GGGTGCTGA	CACGGATCT	GTCTTACCC
268	GlnTrpLeu	IleProAspS	erAlaAspTh	rThrAlaThr	ProThrHisC	ysAlaTyrAs	pArgileVal
901	GTTCCTGCT	CGGCTCTTC	CTTTACTTC	CAGGCTGCT	ATGGCTGAG	TGACCACTG	GGCCAGCCA
	CAAGGCTGA	GGCGAGAGG	GAATTTGAG	GTCCGACGA	TACCGACTC	ACTGTTGAC	CGGTTCTGT
301	ValProAspS	erAlaLeuPr	opheAsnPh	GlnAlaAlaT	ylGlyLeuSe	rAspGlnLeu	AlaGlnAlaI
1001	TGAATGAG	AGCCCTCTC	CACACCACT	GAATCTGAG	TGACCACTG	TGACCACTG	TGACCACTG
	ACTTACTCT	TGGGGAGGG	GTGGGTCAA	CTTGACGTC	ACTGTTGAC	ACTGTTGAC	ACTGTTGAC
335	LysOP*Al	alaProPro	HisThrSero	P*ThrAla			

Fig. 3



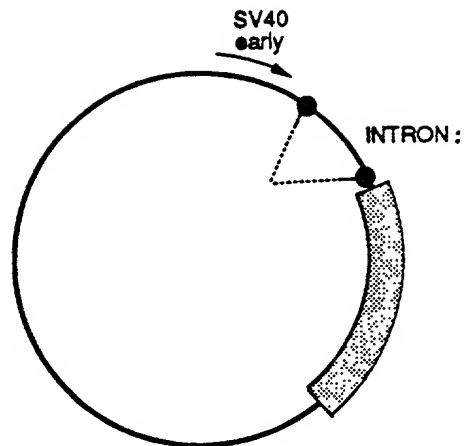
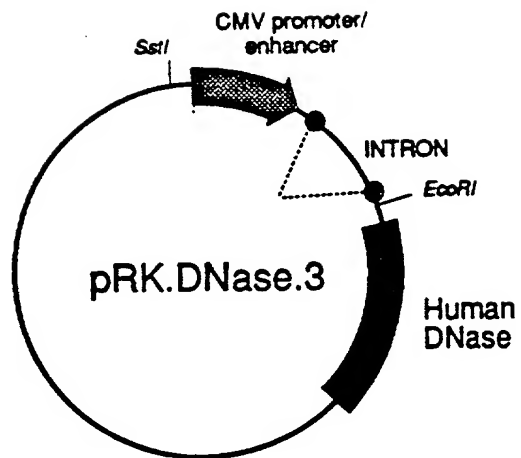
10095675.10701

Fig. 4



1000675-10701

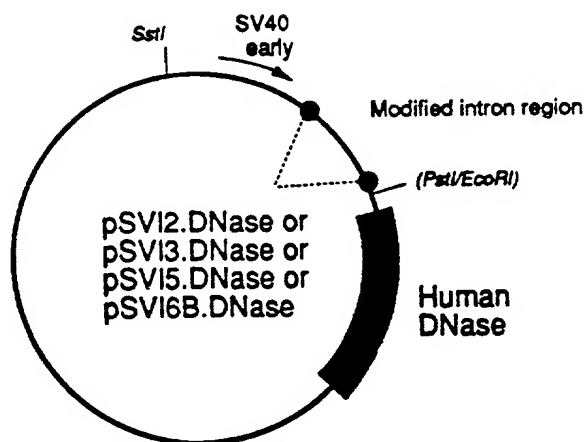
Fig. 5



Cut with *EcoRI*
Isolate vector fragment
Treat with DNA polymerase and dNTPs
Cut with *SstI*

Cut with *PstI*
Treat with T4 polymerase
Cut with *SstI*

ligate



1005675.110701

[illegible]

FIG. 6 (cont)

sau96I
 avall
 asuI
 scrPI
 ecorII
 bstNI

501 TTAATACATA ACCTTATGTA TCATACACAT ACGATTTAGG TGACACTATA GAATACATC CACTTGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC
 AATTATGTAT TGGAAATACAT AGTATGTGTA TGCTAAATCC ACTGTGATAT CTTATTGTAG GTGAACGGA AAGAGAGGTG TCCACAGGTG AGGTCTCAGG

hphI sp6 RNA start foki

note ATG

mseI

bspMI
 aluI pstI
 hindIII fnu4HI
 ddeI bbvI

mseI hgaI

1

cloning linker
 601 AACTGCACCT CGGTTCTAAG CTTGGGGCTGC AGGTGCGCGT GAATTTAAGG GACGCTGTGA AGCA
 TTGACGTGGA GCCAAGATTG GAAACCGACG TCCAGCGGCA CTTAAATTCC CTGGGACACT TCGT

401 GGTGCATTGG AACGGGGATT CCCCGTGCCA AGAGTCACGGT AAGTACCGCC TATAAGATC ATACCGGCGT GGGGAACCGA AGCAATCTTG CGCCGATGT

FIG. 7 (cont.) TOPOT 3500T

sau96I
 avall
 asul
 scrFI
 ecorII
 bstNI

501 TTAATACATA ACCTTATGTA TCATACACAT ACGATTTAGG TGACACTATA GAAATACATC CACATTCGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC
 AATTATGTAT TGCATACAT AGTATGTGTA TGCTAANTCC ACTGTGATAT CTTATTTCTAG GTGAACCGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG

hphI
 sp6 RNA start
 fokI

mseI

note ATG

bspMI
 pstI
 fnu4HI
 bbvI

alul
 hindIII
 ddeI

mseI hgaI

cloning linker

601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCCCGGT GAATTTAAGG GACGCTGTGA AGCA
 TTGACGTGGA GCCAAGATTC GAACCGACG TCCAGCGGCA CTTAATTTCC CTGCGACACT TCGT

Figure 1.10

FIG 8 (cont)

sau3AI
mboI
dpmI
alwI
xhoII
nlaIV
bstYI
bamHI
alwI
removed ATG
lariat consensus
501 TTTAATACATA ACCTTTTGGG TCCTATAGAC TGACATCCAC TTTGGCTTTC TCTCCACAGG TGTCCACTCC CAGGTCCAAC TGCACCTCGG TTGGAAGCTT
AATTATGTAT TGGAAAACCT AGGATATCTG ACTGTAGGTG AAACGGAAAG AGAGGTGTCC ACAGGTGAGG GTCCAGGTTG ACGTGGAGCC AAGCTTCGAA
mseI
fokI
alul
hindIII
taqI
bstBI
asul
mnlI
cloning linker
sau96I
avall
asul
scrFI
ecorII
bsuNI
pslI
fnu4HI
bbvI
mseI
hgaI
1 GGGCTGCAGG TCGCCGTGAA TTTAAGGAC GCTGTGAAGC A
601 CCCGACGTCC AGCGGCACTT AATTCCCTG CGACACTTTCG T

FIG. 9

aluI
 sstI
 sacI
 hgiIII
 hgiAI
 bsp1286
 banII
 taqI
 1 TTCGAGCTCG CCCGACATTG ATTATTGACT AGAGTCGACA GCTGTGGAAT GTGTGTCAGT
 AAGCTCGAGC GGGCTGTAAC TAATAACTGA TCTCAGCTGT CGACACCTTA CACACAGTCA
 taqI
 pleI aluI
 hinfI pvuII
 61 TAGGGTGTGG AAAGTCCCCA GGCTCCCCAG CAGGCAGAAG TATGCAAAGC ATGCATCTCA
 ATCCACACC TTTCAGGGGT CCGAGGGGTC GTCCGTCTTC ATACGTTTCG TACGTAGAGT
 nlaIV
 scrFI
 ecoRII
 bstNI
 nsII
 avaIII
 nlaIII
 sphI sfaNI
 nspCIX
 121 ATTAGTCAGC AACCAGGTGT GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA
 TAATCAGTCG TTGGTCCACA CTTTCAGGG GTCCGAGGGG TCGTCCGTCT TCATACGTTT
 scrFI
 ecoRII
 bstNI
 nlaIV
 scrFI
 ecoRII
 bstNI
 181 GCATGCATCT CAATTAGTCA GCAACCATAG TCCCGCCCCCT AACTCCGCCC ATCCCGCCCC
 CGTACGTAGA GTTAATCAGT CGTTGGTATC AGGGCGGGGA TTGAGGCGGG TAGGGCGGGG
 sfaNI
 nsII
 avaIII
 nlaIII
 sphI
 nspCIX
 foki
 241 TAACTCCGCC CAGTTCCGCC CATTCTCCGC CCCATGGCTG ACTAATTTTT TTTATTTATG
 ATTGAGGCGG GTCAAGGCGG GTAAGAGGCG GGGTACCGAC TGATTAAAAA AAATAAATAC
 nlaIII
 styI
 ncoI
 bsrI
 301 CAGAGGCCGA GGCCGCCTCG GCCTCTGAGC TATTCCAGAA GTAGTGAGGA GGCTTTTTTG
 GTCTCCGGCT CCGGCGGAGC CGGAGACTCG ATAAGGTCTT CATCACTCCT CCGAAAAAC
 fnu4HI
 bglI
 sfiI ddeI
 haeIII haeIII haeIII
 mnlI mnlI mnlI mnlI aluI
 361 GAGGCCTAGG CTTTTGCAAA AAGCTTATCC GGCCGGGAAC GGTGCATTGG AACGCGGATT
 CTCCGGATCC GAAAACGTTT TTCGAATAGG CCGGCCCTTG CCACGTAACC TTGCGCCTAA
 scrFI
 nciI
 mspI
 hpaII
 haeIII
 xmaIII
 eagI
 eaeI
 cfrI
 aluI mspI cauII
 hinfI
 styI
 avrII
 haeIII
 stuI
 haeI
 mnlI
 421 CCCCCTGCCA AGAGTCAGGT AAGTACCGCC TATAGAGTCT ATAGGCCAC CCCCTTGGCT
 GGGGCACGGT TCTCAGTCCA TTCATGGCGG ATATCTCAGA TATCCGGGTG GGGGAACCGA
 pleI
 hinfI
 rsaI
 pleI
 hinfI
 bstXI
 sau96I
 haeIII
 asuI
 styI
 U1 matched splice donar
 421 CCCCCTGCCA AGAGTCAGGT AAGTACCGCC TATAGAGTCT ATAGGCCAC CCCCTTGGCT
 GGGGCACGGT TCTCAGTCCA TTCATGGCGG ATATCTCAGA TATCCGGGTG GGGGAACCGA

1005575-110701

FIG. 7
(cont.)

					sau3AI
					mboI
					dpnI
					alwI
					xhoII
					nlaIV
					bstYI
					bamHI
					alwI
					removed ATG
					U2 match lariat consensus
481	TCGTTAGAAC	GCGGCTACAA	TTAATACATA	ACCTTTTGGA	TCCTACTAAC TACTGACTTA
	AGCAATCTTG	CGCCGATGTT	AATTATGTAT	TGGAAAACCT	AGGATGATTG ATGACTGAAT
					sau96I
					avaII
					asuI
					scrFI
					ecoRII
					bstNI
					thaI
					fnuDII
					bstUI
					mnI
					nruI hindIII
					cloning linker
541	TTCTTTTCCT	TTCTCTCCAC	AGGTGTCCAC	TCCCAGGTCC	AACTGCACCT CGGTTCGCGA
	AAGAAAAGGA	AAGAGAGGTG	TCCACAGGTG	AGGGTCCAGG	TTGACGTGGA GCCAAGCGCT
					bspMI
					pstI
					fnu4HI
					alwI
					bbvI
					mseI
					hgaI
1					
601	AGCTTGGGCT	GCAGGTCGCC	GTGAATTTAA	GGGACGCTGT	GAAGCA
	TCGAACCCGA	CGTCCAGCGG	CACTTAAATT	CCCTGCGACA	CTTCGT

1003567 10791

[illegible]

FOOT 343500T
FIG. 10 (cont)

sau3AI
mboI
dpmI
alwI
xhoII
nlaIV
bstYI
bamHI
alwI
removed ATG

mseI

foKI

U2 match

lariat consensus

IgG vH natural lariat restored

501 TTAATACATA ACCTTTTGGG TCCTACTGAC ACTGACATCC ACTTTTCTT TTTCTCCACA GGTCTCCACT CCCAGGTCCA ACTGCACCTC GGTTCCGGAA
AATTATGTAT TGGAAACCT AGGATGACTG TGAATGTTAG TGAATAATTC CCTGCGACAC TTCGT

1
601 GCTTGGGCTG CAGGTGCGCG TGAATTTAAG GGACGCTGTG AAGCA
CGAACCCGAC GTCCAGCGGC

bspMI
pstI
fnu4HI
bbvI

mseI hgaI

sau96I
avaII
asuI
scriI
ecorII
bstNI

mnlI

nruI hindIII

thai aluI
fndIII
bstII

cloning linker

7009 *Puccinia polyporae* **new species** *Puccinia* **gen. nov.** — *Polyporus* **sp. nov.**

